

Curriculum Vitae: Benedetto Di Ruzza

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Address:

Benedetto Di Ruzza Brookhaven National Laboratory Building 510 D P.O. Box 5000 Upton, NY 11973

EDUCATION

Research Doctorate (Ph.D.) in Experimental Particle Physics

Ph.D. Thesis:

Measurement of the branching ratio of the charmless decay Bs to phi,phi at CDFII

Defended in the Physics Department of University of Trieste (Italy)

Research activity carried out in the Fermilab National Accelerator Laboratory (Batavia, Illinois, USA)

Master degree in particle Physics:

Università degli Studi 'La Sapienza' Roma, (Italy)

Master degree Thesis Title: Upgrade of the online monitoring software in the second level S.V.T. trigger of the CDF experiment at Tevatron (Fermilab, Batavia) Master degree thesis activity developed in the National Institute of Nuclear Physics of Rome (INFN) and in the FERMILAB laboratory (USA)

EMPLOYMENT AND RELATED EXPERIENCE

May 2012 – present:

Associate Scientist at Brookhaven National Laboratory, Physics Department (Upton, NY)

Activities:

Develop and test of the silicon detector for the new eRHIC Detector.

Member of the STAR collaboration

April 2010 - April 2012:

Guest Scientist at Fermilab National Accelerator Laboratory (Batavia, IL)

Activities:

Co-SPL (Sub Project Leader) of the Silicon operation group of the CDFII detector

February 2012, Fermilab:

Teaching assistant in the EDIT 2012 Symposium for the silicon track

http://detectors.fnal.gov/EDIT2012/participants.html#TA

Member of the CDFII collaboration since June 2006

March 2011- April 2012:

Member of the Fermilab T1015 collaboration for R&D of dual readout calorimeter and characterization of silicon photomultipliers, I worked in the preparation of the "ADRIANO" prototype and in the test beam data taking. ttp://www-ppd.fnal.gov/FTBF/MOU_PDF/T1015_mou.phdf

April 1th 2009-March 31th 2010

National institute of Nuclear Physics Research Grant

Research activities:

Research on B physics at the Collider Detector at Fermilab (CDFII), responsibility of the power supply maintenance and improvement for the silicon detector in CDFII

Schools and workshops attended

The 2006 European School of High-Energy Physics

(formerly the CERN-JINR school of physics).

Aronsborg, near Stockholm, Sweden, June 18-July 1, 2006

3th National Course: Detectors and Electronics for High Energy Physics, Astrophysics, Space Applications and Medical Physics'

INFN – Italian National Institute of Nuclear Physics, Legnaro laboratories.

Padua, April 20-24, 2009. INFN

INFN School for Grid users (experiments VIRGO,CDFII and ARGO)

Bologna (CNAF) October 6-9, 2008

Sixth International Conference on Perspectives in Hadronic Physics

International Center for Theoretical Physics 'Abdus Salam', Trieste, May 12-16, 2008

Workshop on the Origin of P, CP and T Violations

International Center for Theoretical Physics 'Abdus Salam'

Trieste, July 2-5, 2008

ICTP/Democritos Joint Workshop on Tools for Computational Physics

International Center for Theoretical Physics 'Abdus Salam'

Trieste March 6-11, 2006

XVIII GIORNATE DI STUDIO SUI RIVELATORI (School on high energy physics detectors),

Turin, February 28-March 3, 2006.

Publications an talks

For the work I done in the CDFII collaboration I'm in the author list since May 2006 and I'm co-author in more than 300 publications:

http://inspirehep.net/search?p=find+a+di+ruzza

For my Ph.D. thesis work I'm one of the primary author of the following PRL: Measurement of Polarization and Search for CP violation in Bs to phi phi Decays Phys. Rev. Lett. 107, 261802(2011) Ph.D Thesis link: http://www.openstarts.units.it/dspace/handle/10077/3059

For my Master degree thesis I'm co-author of the following papers:

"The Silicon Vertex Trigger upgrade at CDF" NIM A572 (2007) 361

"Real Time Secondary Vertexing at CDF" NIM A 569 (2006) 111-114

Master degree thesis link: (only in Italian)

http://www.infn.it/thesis/PDF/getfile.php?filename=2676-Di%20Ruzza-laurea.pdf

International Conferences:

On behalf of the CDF group I have presented a talk at the 13 Lomonosov Conference (Moscow State University) Moscow, Aug 23-29,2007

titled: "Tevatron results on B spectroscopy, lifetimes and rare decays"

July 28th 2009

2009 Meeting of the Division of particles and Fields of American Physical Society 24-31 July 2009 Wayne State University

Title: "Analysis of Bs->phi,phi decay mode"

http://indico.cern.ch/getFile.py/access?contribId=303&sessionId=9&resId=0&materiaIId=slides&confId=41044

April 13th 2011

4th National Course: "Detectors and Electronics for High Energy Physics, Astrophysics, Space Applications and Medical Physics", INFN – Italian National Institute of Nuclear Physics, Legnaro Laboratories

Title: "Longevity Studies on the CDFII Silicon Detectors"

Ihttp://agenda.infn.it/contributionDisplay.py?contribId=12&confId=3245

June 2011

TIPP 2011: "2_{nd} International Conference on Technology and Instrumentation in Particle Physics", Chicago 9-14 June 2011

Title:" Operational experience and aging studies of the CDF Run II Silicon Vertex Detector" http://indico.cern.ch/getFile.py/access?contribId=148&sessionId=22&resId=1&materialId=slides&confId=102998

October 2012

IEEE 2012: "2012 Nuclear Science Symposium, Medical Imaging Conference & Workshop on Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors" October 29 - November 3, 2012, Anaheim, California

NSS poster session:

"Monolithic Active Pixel Silicon Detectors for Future Electron Ion Colliders: Status and Plans" http://www.nss-mic.org/2012/Program/ListProgramDB.asp?session=N14

November 2012

Brookhaven National Laboratory: Young Researcher Symposium 2012

"eRHIC: a new collider to explore the fempto-scale structure of protons and nuclei"

http://www.bnl.gov/bnlyrs2012/files/pdf/agenda.pdf